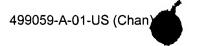




<b>1 1</b> .	An apparatus	for classifying a	call to a	destination
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- endpoint comprising: 2
- a receiver for receiving information from the 3
- destination endpoint; 4
- a first detector for determining a first classification in 5
- response to the information received from the destination 6
- endpoint; 7
- a second detector for determining a second 8
- classification in response to the information received from the 9
- destination endpoint; 10
- a third detector for determining a third classification in 11
- response to the information received from the destination 12
- endpoint; and 13
- an inference engine for determining a call 14
- classification of the destination endpoint in response to the first, 15
- second, and third classifications. 16
- 2. The apparatus of claim 1 further comprises a fourth 1
- detector for determining a fourth classification in response to 2
- the information received from the destination endpoint; and 3
- the inference engine further responsive to the fourth 4
- classification for determining the call classification of the 5
- destination endpoint. 6

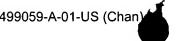


- 1 3. The apparatus of claim 1 wherein the first detector
- 2 is a tone detector.
- 4. The apparatus of claim 1 wherein the second
- 2 detector is an energy analyzer.
- 5. The apparatus of claim 1 wherein the third detector
- 2 is a zero crossing analyzer.
- 6. The apparatus of claim 2 wherein the fourth
- 2 detector is an automatic speech recognizer.
- 7. The apparatus of claim 6 further comprises a
- 2 recorder for recording the received information and for updating
- 3 the inference engine.
- 8. The apparatus of claim 2 wherein the first detector
- is a tone detector, the second detector is an energy analyzer,
- 3 and third detector is a zero crossing analyzer;
- 9. The apparatus of claim 8 wherein the fourth
- 2 detector is an automatic speech recognizer.
- 10. A call classifier for classifying a call to a
- 2 destination endpoint comprising:
- a circuit for receiving information from the destination
- 4 endpoint and for processing the received information;
- a tone detector for determining a first classification in

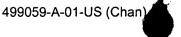




- 6 response to the processed information;
- a energy analyzer detector for determining a second
- 8 classification in response to the processed information;
- a zero crossing analyzer detector for determining a
- third classification in response to the processed information;
- 11 and
- an inference engine for determining a call
- classification of the destination endpoint in response to the first,
- second, and third classifications.
- 1 11. The call classifier of claim 10 further comprises a
- 2 recorder for recording the received information and for updating
- 3 the inference engine.
- 1 12. A call classifier for classifying a call to a
- 2 destination endpoint comprising:
- a circuit for receiving information from the destination
- 4 endpoint and for processing the received information;
- a tone detector for determining a first classification in
- 6 response to the processed information;
- a energy analyzer detector for determining a second
- 8 classification in response to the processed information;
- a zero crossing analyzer detector for determining a
- third classification in response to the processed information;
- an automatic speech recognition unit for determining a
- 12 fourth classification; and



- an inference engine for determining a call 13 classification of the destination endpoint in response to the first, 14 second, third and fourth classifications. 15
- 13. The call classifier of claim 12 further comprises a 1 recorder for recording the received information and for updating 2 the inference engine. 3
- 14. The call classifier of claim 12 wherein the 1 automatic speech recognition unit is determining words. 2
- 15. The call classifier of claim 12 wherein the 1 automatic speech recognition unit is determining phrases. 2
- 16. The call classifier of claim 15 wherein the 1 automatic speech recognition unit is executing a Hidden 2 Markov Model. 3
- 17. A method for classifying a call to a destination 1 endpoint, comprising the steps of: 2
- receiving information from the called destination 3 endpoint; 4
- performing a first classification of the received 5 information; 6
- performing a second classification of the received 7 information; 8
- performing a third classification of the received 9

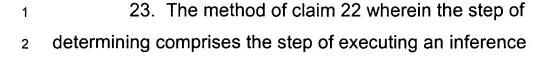


- information; and 10
- determining a call classification of the called 11
- destination endpoint from the first, second, and third 12
- classifications. 13
- 18. The method of claim 17 further comprises the 1
- step of performing a fourth classification of the received 2
- information; and 3
- the step of determining further responsive to the fourth 4
- classification to determine the call classification of the called 5
- destination endpoint. 6
- 19. The method of claim 18 wherein the first 1
- classification is for one of tone, energy, zero crossings, or 2
- speech. 3
- 20. The method of claim 19 wherein the second 1
- classification is for one of tone, energy, zero crossings, or 2
- speech. 3
- 21. The method of claim 19 wherein the third 1
- classification is for one of tone, energy, zero crossings, or 2
- speech. 3
- 22. The method of claim 21 wherein the fourth 1
- classification is for one of tone, energy, zero crossings, or 2
- speech. 3

engine.

3





- 24. The method of claim 23 further comprises the step of recording the received information for updating the inference engine.
- 25. The method of claim 23 wherein performing classification for speech comprises the step of executing a Hidden Markov Model.
- 26. The method of claim 23 wherein performing classification for speech comprises the step of determining words.
- 27. The method of claim 23 wherein performing classification for speech comprises the step of determining phrases.
- 28. A method for classifying a call to a destination endpoint, comprising the steps of:
- receiving information from the called destination endpoint;
- performing a tone classification of the receivedinformation;
- 7 performing a energy classification of the received



8	info	rma	tion:

- performing a zero crossing classification of thereceived information;
- performing speech classification of the received information; and
- executing an inference engine to determine a call classification of the called destination endpoint from the tone, energy, zero crossing, and speech classifications.
- 29. The method of claim 28 wherein performing
  speech classification comprises the step of determining words.
- 30. The method of claim 28 wherein performing speech classification comprises the step of determining phrases.
- 31. The method of claim 28 further comprises the step of recording the received information for updating the inference engine.
- 1 32. Apparatus for implementing the steps of claim 17.
- 1 33. Apparatus for implementing the steps of claim 18.